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SEQUENCE LISTING

<110> Alessandro Sette
John Sidney
Scott Southwood
Maria A. Vitiello
Brian D. Livingston
Esteban Celis
Ralph T. Kubo
Howard M. Grey
Robert Chesnut

<120> INDUCING CELLULAR IMMUNE RESPONSES TO
HEPATITIS B VIRUS USING PEPTIDE AND NUCLEIC ACID
COMPOSITIONS

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<141> 1999-07-08

<150> US 09/189,702

<151> 1998-11-10

<150> US 08/205,713

<151> 1994-03-04

<150> US 08/159,184

<151> 1993-11-29

<150> US 08/073,205

<151> 1993-06-04

<150> US 08/027,146

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Gly Pro Cys Ala Leu Arg Phe Thr Ser Ala
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His Leu Asn Pro Asn Lys Thr Lys Arg Trp
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Ile Ile Leu Gly Phe Arg Lys Ile Pro Met
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<210> 1847

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Ile Leu Arg Gly Thr Ser Phe Val Tyr Val
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Ile Leu Ser Thr Leu Pro Glu Thr Thr Val
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Ile Pro Ile Pro Ser Ser Trp Ala Phe Ala
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Ile Pro Met Gly Val Gly Leu Ser Pro Phe
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Ile Pro Trp Thr His Lys Val Gly Asn Phe
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Lys Leu Cys Leu Gly Trp Leu Trp Gly Met
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Lys Leu His Leu Tyr Ser His Pro Ile Ile
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Lys Leu Pro Val Asn Arg Pro Ile Asp Trp
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Lys Val Cys Gln Arg Ile Val Gly Leu Leu
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<210> 1858
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Lys Val Leu His Lys Arg Thr Leu Gly Leu
1 5 10

<210> 1859
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Leu Ile Phe Leu Leu Val Leu Leu Asp Tyr
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<210> 1860
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Leu Leu Cys Leu Ile Phe Leu Leu Val Leu

1 5 10

<210> 1861
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<400> 1861
Leu Leu Asp Tyr Gln Gly Met Leu Pro Val
1 5 10

<210> 1862
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Leu Leu Gly Cys Ala Ala Asn Trp Ile Leu
1 5 10

<210> 1863
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Leu Leu Leu Cys Leu Ile Phe Leu Leu Val
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<210> 1864
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<210> 1866
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1 5 10

<210> 1867
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Leu Leu Val Leu Gln Ala Gly Phe Phe Leu
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Leu Pro Ile Phe Phe Cys Leu Trp Val Tyr
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<210> 1870
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Leu Pro Ile His Thr Ala Glu Leu Leu Ala
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<210> 1871

<211> 10

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Leu Pro Lys Val Leu His Lys Arg Thr Leu
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<211> 10

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Leu Pro Leu Asp Lys Gly Ile Lys Pro Tyr
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<210> 1873

<211> 10

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Leu Val Leu Leu Asp Tyr Gln Gly Met Leu
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<210> 1874

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Leu Val Leu Gln Ala Gly Phe Phe Leu Leu
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<210> 1875

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<210> 1877
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<210> 1878
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Asn Pro Asn Lys Thr Lys Arg Trp Gly Tyr
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<210> 1879
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Asn Val Ser Ile Pro Trp Thr His Lys Val
1 5 10

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<210> 1881
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1 5 10

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1 5 10

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Pro Leu Asp Lys Gly Ile Lys Pro Tyr Tyr
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<210> 1884
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Pro Leu Glu Glu Glu Leu Pro Arg Leu Ala

1 5 10

<210> 1885
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Pro Leu Gly Phe Phe Pro Asp His Gln Leu
1 5 10

<210> 1886
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Pro Leu His Pro Ala Ala Met Pro His Leu
1 5 10

<210> 1887
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Pro Leu Leu Pro Ile Phe Phe Cys Leu Trp
1 5 10

<210> 1888
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1 5 10

<210> 1889
<211> 10
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Pro Leu Pro Ile His Thr Ala Glu Leu Leu
1 5 10

<210> 1890
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Pro Leu Ser Tyr Gln His Phe Arg Lys Leu
1 5 10

<210> 1891
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Pro Leu Thr Val Asn Glu Lys Arg Arg Leu
1 5 10

<210> 1892
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Pro Met Gly Val Gly Leu Ser Pro Phe Leu
1 5 10

<210> 1893
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Pro Pro Asn Ala Pro Ile Leu Ser Thr Leu
1 5 10

<210> 1894
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Pro Val Asn Arg Pro Ile Asp Trp Lys Val
1 5 10

<210> 1895

<211> 10

<212> PRT

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Gln Leu Leu Trp Phe His Ile Ser Cys Leu
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<210> 1896

<211> 10

<212> PRT

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Arg Ile Val Gly Leu Leu Gly Phe Ala Ala
1 5 10

<210> 1897

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Arg Leu Lys Leu Ile Met Pro Ala Arg Phe
1 5 10

<210> 1898

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Arg Gln Ala Ile Leu Cys Trp Gly Glu Leu
1 5 10

<210> 1899

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Arg Val His Phe Ala Ser Pro Leu His Val
1 5 10

<210> 1900
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Ser Leu Leu Val Pro Phe Val Gln Trp Phe
1 5 10

<210> 1901
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<400> 1901
Ser Leu Arg Gly Leu Pro Val Cys Ala Phe
1 5 10

<210> 1902
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Ser Leu Thr Asn Leu Leu Ser Ser Asn Leu
1 5 10

<210> 1903
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Ser Pro His His Thr Ala Leu Arg Gln Ala
1 5 10

<210> 1904
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<400> 1904
Ser Pro Thr Val Trp Leu Ser Val Ile Trp
1 5 10

<210> 1905
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<400> 1905
Ser Val Arg Phe Ser Trp Leu Ser Leu Leu
1 5 10

<210> 1906
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<400> 1906
Thr Ile Pro Gln Ser Leu Asp Ser Trp Trp
1 5 10

<210> 1907
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<400> 1907
Thr Pro Ala Arg Val Thr Gly Gly Val Phe
1 5 10

<210> 1908
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<400> 1908
Thr Pro Pro Ala Tyr Arg Pro Pro Asn Ala

1 5 10

<210> 1909
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<400> 1909
Thr Pro Pro His Gly Gly Leu Leu Gly Trp
1 5 10

<210> 1910
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<400> 1910
Val Leu Gly Ala Lys Ser Val Gln His Leu
1 5 10

<210> 1911
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<212> PRT
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<400> 1911
Val Leu Gly Gly Cys Arg His Lys Leu Val
1 5 10

<210> 1912
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<400> 1912
Val Pro Phe Val Gln Trp Phe Val Gly Leu
1 5 10

<210> 1913
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<400> 1913

Val Pro Asn Leu Gln Ser Leu Thr Asn Leu
1 5 10

<210> 1914

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<212> PRT

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<400> 1914

Val Gln Ala Ser Lys Leu Cys Leu Gly Trp
1 5 10

<210> 1915

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<400> 1915

Val Val Leu Ser Arg Lys Tyr Thr Ser Phe
1 5 10

<210> 1916

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<400> 1916

Val Val Arg Arg Ala Phe Pro His Cys Leu
1 5 10

<210> 1917

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<212> PRT

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<400> 1917

Trp Ile Leu Arg Gly Thr Ser Phe Val Tyr
1 5 10

<210> 1918

<211> 10

<212> PRT

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Trp	Leu	Leu	Gly	Cys	Ala	Ala	Asn	Trp	Ile
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<210> 1919

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<400> 1919

Trp	Leu	Ser	Leu	Asp	Val	Ser	Ala	Ala	Phe
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<210> 1920

<211> 10

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<400> 1920

Trp	Leu	Trp	Gly	Met	Asp	Ile	Asp	Pro	Tyr
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<210> 1921

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<212> PRT

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<400> 1921

Trp	Met	Cys	Leu	Arg	Arg	Phe	Ile	Ile	Phe
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<210> 1922

<211> 10

<212> PRT

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<400> 1922

Trp	Met	Met	Trp	Tyr	Trp	Gly	Pro	Ser	Leu
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<210> 1923

<211> 10

<212> PRT
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<400> 1923
Tyr Leu His Thr Leu Trp Lys Ala Gly Ile
1 5 10

<210> 1924
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<210> 2103

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1 5

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1 5

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Tyr Val Pro Ser Ala Leu Asn Pro Ala
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<400> 3021

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<210> 3022

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<210> 3024

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Cys	Leu	Thr	Phe	Gly	Arg	Glu	Thr	Val	Leu	Glu	Tyr	Leu	Val	Ser
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Arg	Arg	Ser	Phe	Gly	Val	Glu	Pro	Ser	Gly	Ser	Gly	His	Ile	Asp
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<210> 3026

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<400> 3027
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1 5 10 15

<210> 3029
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1 5 10 15

<210> 3030
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1 5 10 15

<210> 3031
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Ala Gly Phe Phe Leu Leu Thr Arg Ile Leu Thr Ile Pro Gln Ser
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<210> 3032
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Cys Leu Ile Phe Leu Leu Val Leu Leu Asp Tyr Gln Gly Met Leu
1 5 10 15

<210> 3033
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<400> 3033
Gly Leu Tyr Phe Pro Ala Gly Gly Ser Ser Ser Gly Thr Val Asn
1 5 10 15

<210> 3034
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1 5 10 15

<210> 3035
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Arg Arg Ala Phe Pro His Cys Leu Ala Phe Ser Tyr Met Asp Asp
1 5 10 15

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1 5 10 15

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Lys Gln Cys Phe Arg Lys Leu Pro Val Asn Arg Pro Ile Asp Trp
1 5 10 15

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Val Cys Ala Phe Ser Ser Ala Gly Pro Cys Ala Leu Arg Phe Thr
1 5 10 15

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Lys Gln Ala Phe Thr Phe Ser Pro Thr Tyr Lys Ala Phe Leu Cys
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<212> PRT

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<210> 3045

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<210> 3046

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<400> 3046

Gly	Thr	Ser	Phe	Val	Tyr	Val	Pro	Ser	Ala	Leu	Asn	Pro	Ala	Asp
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<400> 3047

Asn	Arg	Pro	Ile	Asp	Trp	Lys	Val	Cys	Gln	Arg	Ile	Val	Gly	Leu
1				5					10					15

<210> 3048

<211> 15

<212> PRT

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<400> 3048

Arg	Phe	Ile	Ile	Phe	Leu	Phe	Ile	Leu	Leu	Leu	Cys	Leu	Ile	Phe
1				5					10					15

<210> 3049

<211> 15

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<400> 3049

Leu	Cys	Leu	Ile	Phe	Leu	Leu	Val	Leu	Leu	Asp	Tyr	Gln	Gly	Met
1				5					10					15

<210> 3050

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<400> 3050

Ala	Lys	Leu	Ile	Gly	Thr	Asp	Asn	Ser	Val	Val	Leu	Ser	Arg	Lys
1				5					10					15

<210> 3051

<211> 15

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<400> 3051
Pro Leu Pro Ile His Thr Ala Glu Leu Leu Ala Ala Cys Phe Ala
1 5 10 15

<210> 3052
<211> 15
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<400> 3052
Arg Arg Phe Ile Ile Phe Leu Phe Ile Leu Leu Leu Cys Leu Ile
1 5 10 15

<210> 3053
<211> 15
<212> PRT
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<400> 3053
Phe Leu Phe Ile Leu Leu Leu Cys Leu Ile Phe Leu Leu Val Leu
1 5 10 15

<210> 3054
<211> 15
<212> PRT
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<400> 3054
Ala Asn Trp Ile Leu Arg Gly Thr Ser Phe Val Tyr Val Pro Ser
1 5 10 15

<210> 3055
<211> 15
<212> PRT
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<400> 3055
Asn Ala Pro Ile Leu Ser Thr Leu Pro Glu Thr Thr Val Val Arg
1 5 10 15

<210> 3056
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
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<400> 3056
Cys Thr Cys Ile Pro Ile Pro Ser Ser Trp Ala Phe Ala Arg Phe
1 5 10 15

<210> 3057
<211> 15
<212> PRT
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<220>
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<400> 3057
Gly Val Trp Ile Arg Thr Pro Pro Ala Tyr Arg Pro Pro Asn Ala
1 5 10 15

<210> 3058
<211> 15
<212> PRT
<213> Artificial Sequence

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<400> 3058
Ala Glu Leu Leu Ala Ala Cys Phe Ala Arg Ser Arg Ser Gly Ala
1 5 10 15

<210> 3059
<211> 15
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<220>
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<400> 3059
Pro His Cys Leu Ala Phe Ser Tyr Met Asp Asp Val Val Leu Gly
1 5 10 15

<210> 3060
<211> 15
<212> PRT
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<220>
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<400> 3060
Pro Phe Leu Leu Ala Gln Phe Thr Ser Ala Ile Cys Ser Val Val

1 5 10 15

<210> 3061
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<212> PRT
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<400> 3061
Ala Ser Lys Leu Cys Leu Gly Trp Leu Trp Gly Met Asp Ile Asp
1 5 10 15

<210> 3062
<211> 15
<212> PRT
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<220>
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<400> 3062
Ile Leu Leu Leu Cys Leu Ile Phe Leu Leu Val Leu Leu Asp Tyr
1 5 10 15

<210> 3063
<211> 15
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<220>
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<400> 3063
Arg Asp Val Leu Cys Leu Arg Pro Val Gly Ala Glu Ser Arg Gly
1 5 10 15

<210> 3064
<211> 15
<212> PRT
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<400> 3064
Arg Pro Gly Leu Cys Gln Val Phe Ala Asp Ala Thr Pro Thr Gly
1 5 10 15

<210> 3065
<211> 15
<212> PRT
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<220>
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<400> 3065

Pro Gln Ser Leu Asp Ser Trp Trp Thr Ser Leu Asn Phe Leu Gly
1 5 10 15

<210> 3066

<211> 15

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<400> 3066

Arg Asp Leu Leu Asp Thr Ala Ser Ala Leu Tyr Arg Glu Ala Leu
1 5 10 15

<210> 3067

<211> 15

<212> PRT

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<400> 3067

Trp Leu Ser Leu Asp Val Ser Ala Ala Phe Tyr His Ile Pro Leu
1 5 10 15

<210> 3068

<211> 15

<212> PRT

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<220>

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<400> 3068

Leu Val Leu Leu Asp Tyr Gln Gly Met Leu Pro Val Cys Pro Leu
1 5 10 15

<210> 3069

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

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<400> 3069

Ala Gly Pro Leu Glu Glu Glu Leu Pro Arg Leu Ala Asp Glu Gly
1 5 10 15

<210> 3070

<211> 15

<212> PRT

<213> Artificial Sequence

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<400> 3070

Ile	Ile	Phe	Leu	Phe	Ile	Leu	Leu	Leu	Cys	Leu	Ile	Phe	Leu	Leu
1				5					10					15

<210> 3071

<211> 15

<212> PRT

<213> Artificial Sequence

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<400> 3071

Asp	Val	Val	Leu	Gly	Ala	Lys	Ser	Val	Gln	His	Leu	Glu	Ser	Leu
1				5					10					15

<210> 3072

<211> 15

<212> PRT

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<400> 3072

Val	Gly	Leu	Leu	Gly	Phe	Ala	Ala	Pro	Phe	Thr	Gln	Cys	Gly	Tyr
1				5					10					15

<210> 3073

<211> 15

<212> PRT

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<400> 3073

Pro	Ile	Ile	Leu	Gly	Phe	Arg	Lys	Ile	Pro	Met	Gly	Val	Gly	Leu
1				5					10					15

<210> 3074

<211> 15

<212> PRT

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<223> Artificially Synthesized Peptide

<400> 3074

Asp	Leu	Asn	Leu	Gly	Asn	Leu	Asn	Val	Ser	Ile	Pro	Trp	Thr	His
1				5					10					15

<210> 3075

<211> 15

<212> PRT
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<220>
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<400> 3075
Ser Gly Phe Leu Gly Pro Leu Leu Val Leu Gln Ala Gly Phe Phe
1 5 10 15

<210> 3076
<211> 15
<212> PRT
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<220>
<223> Artificially Synthesized Peptide

<400> 3076
His Leu Pro Leu His Pro Ala Ala Met Pro His Leu Leu Val Gly
1 5 10 15

<210> 3077
<211> 15
<212> PRT
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<220>
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<400> 3077
Leu Leu Cys Leu Ile Phe Leu Leu Val Leu Leu Asp Tyr Gln Gly
1 5 10 15

<210> 3078
<211> 15
<212> PRT
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<220>
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<400> 3078
Lys Arg Arg Leu Lys Leu Ile Met Pro Ala Arg Phe Tyr Pro Asn
1 5 10 15

<210> 3079
<211> 15
<212> PRT
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<220>
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<400> 3079
Glu Ile Arg Leu Lys Val Phe Val Leu Gly Gly Cys Arg His Lys
1 5 10 15

<210> 3080
<211> 15
<212> PRT
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<220>
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<400> 3080
Ser Pro Phe Leu Leu Ala Gln Phe Thr Ser Ala Ile Cys Ser Val
1 5 10 15

<210> 3081
<211> 15
<212> PRT
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<220>
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<400> 3081
Ile Arg Asp Leu Leu Asp Thr Ala Ser Ala Leu Tyr Arg Glu Ala
1 5 10 15

<210> 3082
<211> 15
<212> PRT
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<220>
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<400> 3082
Phe Pro Trp Leu Leu Gly Cys Ala Ala Asn Trp Ile Leu Arg Gly
1 5 10 15

<210> 3083
<211> 15
<212> PRT
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<220>
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<400> 3083
Ile Val Gly Leu Leu Gly Phe Ala Ala Pro Phe Thr Gln Cys Gly
1 5 10 15

<210> 3084
<211> 15
<212> PRT
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<220>
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<400> 3084
His Gly Gly Leu Leu Gly Trp Ser Pro Gln Ala Gln Gly Ile Leu

1 5 10 15

<210> 3085
<211> 15
<212> PRT
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<220>
<223> Artificially Synthesized Peptide

<400> 3085
Leu Phe Ile Leu Leu Leu Cys Leu Ile Phe Leu Leu Val Leu Leu
1 5 10 15

<210> 3086
<211> 15
<212> PRT
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<220>
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<400> 3086
Ser Val Glu Leu Leu Ser Phe Leu Pro Ser Asp Phe Phe Pro Ser
1 5 10 15

<210> 3087
<211> 15
<212> PRT
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<220>
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<400> 3087
Thr Asn Phe Leu Leu Ser Leu Gly Ile His Leu Asn Pro Asn Lys
1 5 10 15

<210> 3088
<211> 15
<212> PRT
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<220>
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<400> 3088
Leu Thr Asn Leu Leu Ser Ser Asn Leu Ser Trp Leu Ser Leu Asp
1 5 10 15

<210> 3089
<211> 15
<212> PRT
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<220>
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<400> 3089

Gly	Phe	Phe	Leu	Leu	Thr	Arg	Ile	Leu	Thr	Ile	Pro	Gln	Ser	Leu
1				5					10					15

<210> 3090

<211> 15

<212> PRT

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<400> 3090

Leu	Gly	Pro	Leu	Leu	Val	Leu	Gln	Ala	Gly	Phe	Phe	Leu	Leu	Thr
1				5					10					15

<210> 3091

<211> 15

<212> PRT

<213> Artificial Sequence

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<400> 3091

Trp	Leu	Ser	Leu	Leu	Val	Pro	Phe	Val	Gln	Trp	Phe	Val	Gly	Leu
1				5					10					15

<210> 3092

<211> 15

<212> PRT

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<400> 3092

Ile	Arg	Gln	Leu	Leu	Trp	Phe	His	Ile	Ser	Cys	Leu	Thr	Phe	Gly
1				5					10					15

<210> 3093

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

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<400> 3093

Tyr	Pro	Ala	Leu	Met	Pro	Leu	Tyr	Ala	Cys	Ile	Gln	Ser	Lys	Gln
1				5					10					15

<210> 3094

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3094

Ala	Glu	Asp	Leu	Asn	Leu	Gly	Asn	Leu	Asn	Val	Ser	Ile	Pro	Trp
1				5					10					15

<210> 3095

<211> 15

<212> PRT

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<220>

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<400> 3095

Gly	Ile	His	Leu	Asn	Pro	Asn	Lys	Thr	Lys	Arg	Trp	Gly	Tyr	Ser
1				5					10					15

<210> 3096

<211> 15

<212> PRT

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<220>

<223> Artificially Synthesized Peptide

<400> 3096

Asp	Glu	Gly	Leu	Asn	Arg	Arg	Val	Ala	Glu	Asp	Leu	Asn	Leu	Gly
1				5					10					15

<210> 3097

<211> 15

<212> PRT

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<400> 3097

Leu	Gly	Asn	Leu	Asn	Val	Ser	Ile	Pro	Trp	Thr	His	Lys	Val	Gly
1				5					10					15

<210> 3098

<211> 15

<212> PRT

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<220>

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<400> 3098

Leu	Ser	Thr	Leu	Pro	Glu	Thr	Thr	Val	Val	Arg	Arg	Arg	Gly	Arg
1				5					10					15

<210> 3099

<211> 15

<212> PRT
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<220>
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<400> 3099
Leu Pro Leu Leu Pro Ile Phe Phe Cys Leu Trp Val Tyr Ile Glx
1 5 10 15

<210> 3100
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
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<400> 3100
Val Ala Pro Leu Pro Ile His Thr Ala Glu Leu Leu Ala Ala Cys
1 5 10 15

<210> 3101
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
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<400> 3101
Phe Arg Lys Leu Pro Val Asn Arg Pro Ile Asp Trp Lys Val Cys
1 5 10 15

<210> 3102
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
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<400> 3102
Cys Trp Trp Leu Gln Phe Arg Asn Ser Lys Pro Cys Ser Asp Tyr
1 5 10 15

<210> 3103
<211> 15
<212> PRT
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<220>
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<400> 3103
His Leu Ser Leu Arg Gly Leu Pro Val Cys Ala Phe Ser Ser Ala
1 5 10 15

<210> 3104
<211> 15
<212> PRT
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<220>
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<400> 3104
Val Leu Cys Leu Arg Pro Val Gly Ala Glu Ser Arg Gly Arg Pro
1 5 10 15

<210> 3105
<211> 15
<212> PRT
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<220>
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<400> 3105
His Thr Ala Leu Arg Gln Ala Ile Leu Cys Trp Gly Glu Leu Met
1 5 10 15

<210> 3106
<211> 15
<212> PRT
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<400> 3106
Trp Met Cys Leu Arg Arg Phe Ile Ile Phe Leu Phe Ile Leu Leu
1 5 10 15

<210> 3107
<211> 15
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<400> 3107
Val Glu Leu Leu Ser Phe Leu Pro Ser Asp Phe Phe Pro Ser Ile
1 5 10 15

<210> 3108
<211> 15
<212> PRT
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<400> 3108
Leu Ser Trp Leu Ser Leu Asp Val Ser Ala Ala Phe Tyr His Ile

1 5 10 15

<210> 3109
<211> 15
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<400> 3109
Phe Ser Trp Leu Ser Leu Leu Val Pro Phe Val Gln Trp Phe Val
1 5 10 15

<210> 3110
<211> 15
<212> PRT
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<220>
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<400> 3110
Gly Ala His Leu Ser Leu Arg Gly Leu Pro Val Cys Ala Phe Ser
1 5 10 15

<210> 3111
<211> 15
<212> PRT
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<220>
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<400> 3111
Gly Val Gly Leu Ser Pro Phe Leu Leu Ala Gln Phe Thr Ser Ala
1 5 10 15

<210> 3112
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
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<400> 3112
Ser Val Val Leu Ser Arg Lys Tyr Thr Ser Phe Pro Trp Leu Leu
1 5 10 15

<210> 3113
<211> 15
<212> PRT
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<400> 3113

Thr	Asn	Leu	Leu	Ser	Ser	Asn	Leu	Ser	Trp	Leu	Ser	Leu	Asp	Val
1				5					10				15	

<210> 3114

<211> 15

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<220>

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<400> 3114

Gly	Thr	Asn	Leu	Ser	Val	Pro	Asn	Pro	Leu	Gly	Phe	Phe	Pro	Asp
1				5					10				15	

<210> 3115

<211> 15

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<400> 3115

Ser	Ser	Asn	Leu	Ser	Trp	Leu	Ser	Leu	Asp	Val	Ser	Ala	Ala	Phe
1				5					10				15	

<210> 3116

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<400> 3116

Thr	Arg	Ile	Leu	Thr	Ile	Pro	Gln	Ser	Leu	Asp	Ser	Trp	Trp	Thr
1				5					10				15	

<210> 3117

<211> 15

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<400> 3117

Leu	Gln	Ser	Leu	Thr	Asn	Leu	Leu	Ser	Ser	Asn	Leu	Ser	Trp	Leu
1				5					10				15	

<210> 3118

<211> 15

<212> PRT

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<400> 3118

Phe	Phe	Leu	Leu	Thr	Arg	Ile	Leu	Thr	Ile	Pro	Gln	Ser	Leu	Asp
1				5					10					15

<210> 3119

<211> 15

<212> PRT

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<400> 3119

Gly	Val	Phe	Leu	Val	Asp	Lys	Asn	Pro	His	Asn	Thr	Thr	Glu	Ser
1				5					10					15

<210> 3120

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3120

Leu	Glu	Tyr	Leu	Val	Ser	Phe	Gly	Val	Trp	Ile	Arg	Thr	Pro	Pro
1				5					10					15

<210> 3121

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

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<400> 3121

Glu	Ser	Arg	Leu	Val	Val	Asp	Phe	Ser	Gln	Phe	Ser	Arg	Gly	Asn
1				5					10					15

<210> 3122

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3122

Arg	Gln	Leu	Leu	Trp	Phe	His	Ile	Ser	Cys	Leu	Thr	Phe	Gly	Arg
1				5					10					15

<210> 3123

<211> 15

<212> PRT
<213> Artificial Sequence

<220>
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<400> 3123
Leu Gly Trp Leu Trp Gly Met Asp Ile Asp Pro Tyr Lys Glu Phe
1 5 10 15

<210> 3124
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Artificially Synthesized Peptide

<400> 3124
Leu His Thr Leu Trp Lys Ala Gly Ile Leu Tyr Lys Arg Glu Thr
1 5 10 15

<210> 3125
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Artificially Synthesized Peptide

<400> 3125
Ala Ser Ala Leu Tyr Arg Glu Ala Leu Glu Ser Pro Glu His Cys
1 5 10 15

<210> 3126
<211> 15
<212> PRT
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<220>
<223> Artificially Synthesized Peptide

<400> 3126
Lys Leu His Leu Tyr Ser His Pro Ile Ile Leu Gly Phe Arg Lys
1 5 10 15

<210> 3127
<211> 15
<212> PRT
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<220>
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<400> 3127
Phe Ser Tyr Met Asp Asp Val Val Leu Gly Ala Lys Ser Val Gln
1 5 10 15

<210> 3128
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
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<400> 3128
Lys Ile Pro Met Gly Val Gly Leu Ser Pro Phe Leu Leu Ala Gln
1 5 10 15

<210> 3129
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
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<400> 3129
Pro Ala Ala Met Pro His Leu Leu Val Gly Ser Ser Gly Leu Ser
1 5 10 15

<210> 3130
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
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<400> 3130
Pro Gln Ala Met Gln Trp Asn Ser Thr Thr Phe His Gln Thr Leu
1 5 10 15

<210> 3131
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
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<400> 3131
Leu Ser Ala Met Ser Thr Thr Asp Leu Glu Ala Tyr Phe Lys Asp
1 5 10 15

<210> 3132
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
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<400> 3132
Ile Trp Met Met Trp Tyr Trp Gly Pro Ser Leu Tyr Asn Ile Leu

1 5 10 15

<210> 3133

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3133

Gly Leu Pro Val Cys Ala Phe Ser Ser Ala Gly Pro Cys Ala Leu
1 5 10 15

<210> 3134

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3134

Asp Trp Lys Val Cys Gln Arg Ile Val Gly Leu Leu Gly Phe Ala
1 5 10 15

<210> 3135

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3135

Leu Cys Gln Val Phe Ala Asp Ala Thr Pro Thr Gly Trp Gly Leu
1 5 10 15

<210> 3136

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3136

Gln Trp Phe Val Gly Leu Ser Pro Thr Val Trp Leu Ser Val Ile
1 5 10 15

<210> 3137

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

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<400> 3137
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1 5 10 15

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Trp	Ala	Ser	Val	Arg	Phe	Ser	Trp	Leu	Ser	Leu	Leu	Val	Pro	Phe
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Cys	Ser	Val	Val	Arg	Arg	Ala	Phe	Pro	His	Cys	Leu	Ala	Phe	Ser
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Thr	Ser	Phe	Val	Tyr	Val	Pro	Ser	Ala	Leu	Asn	Pro	Ala	Asp	Asp
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Gln	Leu	Leu	Trp	Phe	His	Ile	Ser	Cys	Leu	Thr	Phe	Gly	Arg	Glu
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Phe	Val	Gln	Trp	Phe	Val	Gly	Leu	Ser	Pro	Thr	Val	Trp	Leu	Ser
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1 5 10 15

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1 5 10 15

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1 5 10 15

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Arg Val Ser Trp Pro Lys Phe Ala Val Pro Asn Leu Gln Ser Leu
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Ala Phe Ser Tyr Met Asp Asp Val Val Leu Gly Ala Lys Ser Val
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Leu Leu Asp Tyr Gln Gly Met Leu Pro Val Cys Pro Leu Ile Pro
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<400> 3161

Pro Pro Ala Tyr Arg Pro Pro Asn Ala Pro Ile Leu Ser Thr Leu
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<400> 3162

Cys Pro Gly Tyr Arg Trp Met Cys Leu Arg Arg Phe Ile Ile Phe
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<400> 3163

Leu His Leu Tyr Ser His Pro Ile Ile Leu Gly Phe Arg Lys Ile
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<400> 3165

Ser Phe Val Tyr Val Pro Ser Ala Leu Asn Pro Ala Asp Asp Pro
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1 5

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<400> 3175
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1 5

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<210> 3179
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<400> 3179
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1 5

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Gly Gly Val Phe Leu Val Asp Lys Asn Pro His Asn Thr Thr Glu
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Thr	Lys	Tyr	Leu	Pro	Leu	Asp	Lys	Gly	Ile	Lys	Pro	Tyr	Tyr	Pro
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Glu	Ser	Arg	Leu	Val	Val	Asp	Phe	Ser	Gln	Phe	Ser	Arg	Gly	Asn
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Ala	Ser	Ala	Leu	Tyr	Arg	Glu	Ala	Leu	Glu	Ser	Pro	Glu	His	Cys
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<400> 3191

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Leu	Cys	Gln	Val	Phe	Ala	Asp	Ala	Thr	Pro	Thr	Gly	Trp	Gly	Leu
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1 5 10 15

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<400> 3212
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1 5

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1 5

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Gly Leu Trp Ile Arg Thr Pro Pro Val
1 5

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1 5

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1 5

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1 5

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<400> 3221
Phe Met Leu Leu Leu Cys Leu Ile Phe Leu
1 5 10

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1 5 10

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<400> 3224
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1 5 10

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<210> 3226
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<210> 3227
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<400> 3227
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<210> 3228
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<210> 3229
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<210> 3230
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<210> 3231
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1 5

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Lys Leu His Leu Tyr Ser His Pro Val
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1 5

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Leu Leu Ser Ser Asn Leu Ser Trp Val
1 5

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1 5

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1 5

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1 5 10

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1 5 10

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1 5 10

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1 5 10

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Thr Val Trp Lys Ala Gly Ile Leu Tyr Lys
1 5 10

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1 5 10

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1 5 10

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1 5 10

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1 5 10

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1 5 10

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Leu Leu Leu Xaa Leu Ile Phe Leu Leu
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<210> 3323

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<210> 3324

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<210> 3333

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<210> 3334

<211> 11

<212> PRT

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Ser Met Leu Pro Glu Thr Thr Val Val Arg Arg
1 5 10

<210> 3335

<211> 11

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Ser Val Leu Pro Glu Thr Thr Val Val Arg Arg
1 5 10

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1 5 10

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Gly Val Asp Asn Ser Val Val Leu Ser Arg Lys
1 5 10

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1 5 10

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Met Pro Leu Ser Tyr Gln His Ile
1 5

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<220>
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1 5

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Ser Pro Phe Leu Leu Ala Gln Ile
1 5

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Tyr Pro Ala Leu Met Pro Leu Ile
1 5

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Val Pro Ser Ala Leu Asn Pro Ile
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Leu Pro Ile Phe Phe Cys Leu Trp Ile
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Leu Pro Ile His Thr Ala Glu Leu Ile
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Val Pro Phe Val Gln Trp Phe Val Gly Ile
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Asn Pro Leu Gly Phe Phe Pro Asp His Gln Ile
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Leu Pro Ile His Thr Ala Glu Leu Leu Ala Ile
1 5 10

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Phe Leu Pro Ser Tyr Phe Pro Ser Ala
1 5

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Tyr Leu His Thr Leu Trp Lys Ala Gly Val
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Ser Thr Leu Pro Glu Thr Tyr Val Val Arg Arg
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Tyr Met Asp Asp Val Val Leu Gly Val
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Phe Pro Ile Pro Ser Ser Trp Ala Phe
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Ile Pro Ile Thr Ser Ser Trp Ala Phe
1 5

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Ile Pro Ile Leu Ser Ser Trp Ala Phe
1 5

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Phe Pro Val Cys Leu Ala Phe Ser Tyr
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<210> 3357

<211> 9

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Phe Pro His Cys Leu Ala Phe Ala Tyr
1 5

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Phe Pro His Cys Leu Ala Phe Ser Leu
1 5

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<220>

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Ile Pro Ile Pro Met Ser Trp Ala Phe
1 5

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<220>
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1 5

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Phe Leu Pro Ser Glx Phe Phe Pro Ser Val
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<210> 3362
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1 5

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1 5

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1 5

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1 5

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Tyr Leu Leu Thr Arg Ile Leu Thr Ile
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Phe Leu Tyr Thr Arg Ile Leu Thr Ile
1 5

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Phe Leu Leu Thr Tyr Ile Leu Thr Ile
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<211> 9

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Phe Leu Leu Thr Arg Ile Leu Tyr Ile
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Phe Leu Pro Ser Asp Phe Phe Pro Ser Val Arg
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Phe Leu Pro Ser Asp Phe Phe Pro Ser
1 5

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Phe Leu Pro Ser Asp Phe Phe Pro
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Phe Leu Pro Ser Asp Phe Phe Pro Ser Ile
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<400> 3377

Phe Leu Pro Ser Asp Tyr Phe Pro Ser Val
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Tyr Ser Phe Leu Pro Ser Asp Phe Phe Pro Ser Val
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1 5 10

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Asn Met Gly Leu Lys Tyr Arg Gln Leu
1 5

<210> 3381
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<210> 3382
<211> 10
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<220>
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<223> Xaa = Any Amino Acid

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1 5 10

<210> 3383
<211> 11

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<220>
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<400> 3383
Phe Leu Pro Ser Asp Leu Leu Pro Ser Val Arg
1 5 10

<210> 3384
<211> 12
<212> PRT
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<400> 3384
Phe Leu Pro Ser Asp Phe Phe Pro Ser Val Arg Asp
1 5 10

<210> 3385
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<400> 3385
Leu Ser Phe Leu Pro Ser Asp Phe Phe Pro Ser Val
1 5 10

<210> 3386
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<400> 3386
Ser Phe Leu Pro Ser Asp Phe Phe Pro Ser Val
1 5 10

<210> 3387
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<400> 3387
Pro Ser Asp Phe Phe Pro Ser Val
1 5

<210> 3388
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<400> 3388
Phe Leu Met Ser Tyr Phe Pro Ser Val
1 5

<210> 3389
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Phe Leu Pro Ser Tyr Phe Pro Ser Val
1 5

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<400> 3390
Phe Leu Met Ser Asp Tyr Phe Pro Ser Val
1 5 10

<210> 3391
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<400> 3391
Cys Ile Leu Leu Leu Cys Leu Ile Phe Leu Leu
1 5 10

<210> 3392
<211> 10
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<400> 3392
Phe Leu Pro Asn Asp Phe Phe Pro Ser Ala

1 5 10

<210> 3393
<211> 10
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<220>
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<400> 3393
Phe Leu Pro Asp Asp Phe Phe Pro Ser Ala
1 5 10

<210> 3394
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Phe Leu Pro Asn Asp Phe Phe Pro Ser Val
1 5 10

<210> 3395
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Phe Leu Pro Ser Asp Phe Phe Pro Ser Ala
1 5 10

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Phe Leu Pro Asp Asp Phe Phe Pro Ser Val
1 5 10

<210> 3397
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Phe Leu Pro Ala Asp Phe Phe Pro Ser Val
1 5 10

<210> 3398
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1 5 10

<210> 3399
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Phe Leu Pro Ala Asp Phe Phe Pro Ser Ile
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<210> 3400
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1 5 10

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Phe Leu Pro Ser Asp Ala Phe Pro Ser Val
1 5 10

<210> 3402
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<212> PRT
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<400> 3402

Phe Leu Pro Ser Ala Phe Phe Pro Ser Val
1 5 10

<210> 3403

<211> 10

<212> PRT

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<220>

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Phe Leu Pro Ser Asp Phe Ala Pro Ser Val
1 5 10

<210> 3404

<211> 10

<212> PRT

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<220>

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<400> 3404

Phe Leu Pro Ser Asp Phe Phe Ala Ser Val
1 5 10

<210> 3405

<211> 10

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<220>

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<400> 3405

Phe Leu Pro Ser Asp Phe Phe Pro Ala Val
1 5 10

<210> 3406

<211> 10

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<220>

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Phe Leu Ala Ser Asp Phe Phe Pro Ser Val
1 5 10

<210> 3407

<211> 10

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Phe Ala Pro Ser Asp Phe Phe Pro Ser Val
1 5 10

<210> 3408
<211> 10
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Ala Leu Pro Ser Asp Phe Phe Pro Ser Val
1 5 10

<210> 3409
<211> 10
<212> PRT
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<220>
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<400> 3409
Tyr Leu Pro Ser Asp Phe Phe Pro Ser Val
1 5 10

<210> 3410
<211> 10
<212> PRT
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<220>
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<400> 3410
Phe Met Pro Ser Asp Phe Phe Pro Ser Val
1 5 10

<210> 3411
<211> 10
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Phe Leu Lys Ser Asp Phe Phe Pro Ser Val
1 5 10

<210> 3412
<211> 10
<212> PRT
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<220>
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<400> 3412
Phe Leu Pro Ser Glu Phe Phe Pro Ser Val
1 5 10

<210> 3413
<211> 10
<212> PRT
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<220>
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<400> 3413
Phe Leu Pro Ser Asp Phe Tyr Pro Ser Val
1 5 10

<210> 3414
<211> 10
<212> PRT
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<220>
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<400> 3414
Phe Leu Pro Ser Asp Phe Phe Lys Ser Val
1 5 10

<210> 3415
<211> 10
<212> PRT
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<220>
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<400> 3415
Phe Leu Pro Ser Asp Phe Phe Pro Lys Val
1 5 10

<210> 3416
<211> 10
<212> PRT
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<220>
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<220>
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<222> (10)...(10)
<223> Xaa = Val-CONH2

<400> 3416
Phe Leu Pro Ser Asp Phe Phe Pro Ser Xaa
1 5 10

<210> 3417
<211> 10
<212> PRT
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<220>
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<220>
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<222> (10)...(10)
<223> Xaa = Val-NH2

<400> 3417
Val Leu Glu Tyr Leu Val Ser Phe Gly Xaa
1 5 10

<210> 3418
<211> 17
<212> PRT
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<220>
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<220>
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<222> (17)...(17)
<223> Xaa = Val-NH2

<400> 3418
Ala Thr Val Glu Leu Leu Ser Phe Leu Pro Ser Asp Phe Phe Pro Ser
1 5 10 15
Xaa

<210> 3419
<211> 16
<212> PRT
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<220>
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<220>
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<222> (16)...(16)
<223> Xaa = Val-NH2

<400> 3419
Thr Val Glu Leu Leu Ser Phe Leu Pro Ser Asp Phe Phe Pro Ser Xaa
1 5 10 15

<210> 3420
<211> 15
<212> PRT
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<220>
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<222> (15)...(15)
<223> Xaa = Val-NH2

<400> 3420
Val Glu Leu Leu Ser Phe Leu Pro Ser Asp Phe Phe Pro Ser Xaa
1 5 10 15

<210> 3421
<211> 14
<212> PRT
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<220>
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<222> (14)...(14)
<223> Xaa = Val-NH2

<400> 3421
Glu Leu Leu Ser Phe Leu Pro Ser Asp Phe Phe Pro Ser Xaa
1 5 10

<210> 3422
<211> 13
<212> PRT
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<220>
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<222> (13)...(13)
<223> Xaa = Val-NH2

<400> 3422
Leu Leu Ser Phe Leu Pro Ser Asp Phe Phe Pro Ser Xaa
1 5 10

<210> 3423
<211> 12
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<220>
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<220>
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<222> (12)...(12)
<223> Xaa = Val-NH2

<400> 3423
Leu Ser Phe Leu Pro Ser Asp Phe Phe Pro Ser Xaa
1 5 10

<210> 3424
<211> 11
<212> PRT
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<220>
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<222> (11)...(11)
<223> Xaa = Val-NH2

<400> 3424
Ser Phe Leu Pro Ser Asp Phe Phe Pro Ser Xaa
1 5 10

<210> 3425
<211> 10
<212> PRT
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<220>
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<222> (10)...(10)
<223> Xaa = Val-NH2

<400> 3425
Phe Leu Pro Ser Asp Phe Phe Pro Ser Xaa
1 5 10

<210> 3426
<211> 9
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<220>
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<220>
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<222> (9)...(9)
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<400> 3426
Leu Pro Ser Asp Phe Phe Pro Ser Xaa

1

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<210> 3427
<211> 8
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<220>
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<220>
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<222> (8)...(8)
<223> Xaa = Val-NH2

<400> 3427
Pro Ser Asp Phe Phe Pro Ser Xaa
1 5

<210> 3428
<211> 9
<212> PRT
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<220>
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<220>
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<222> (9)...(9)
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<400> 3428
Phe Leu Pro Ser Asp Phe Phe Pro Xaa
1 5

<210> 3429
<211> 8
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<220>
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<222> (8)...(8)
<223> Xaa = Pro-NH2

<400> 3429
Phe Leu Pro Ser Asp Phe Phe Xaa
1 5

<210> 3430
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<220>
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<223> Xaa = Phe-NH2

<400> 3430
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1 5

<210> 3431
<211> 10
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<220>
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<220>
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<223> Xaa = Val-NH2

<400> 3431
Ala Leu Pro Ser Asp Phe Phe Pro Ser Xaa
1 5 10

<210> 3432
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<220>
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<223> Xaa = Val-NH2

<400> 3432
Ser Leu Asn Phe Leu Gly Gly Thr Thr Xaa
1 5 10

<210> 3433
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<222> (11)...(11)
<223> Xaa = Arg-NH2

<400> 3433
Phe Leu Pro Ser Asp Phe Phe Pro Ser Val Xaa
1 5 10

<210> 3434
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<220>
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<400> 3434
Ala Leu Phe Lys Asp Trp Glu Glu Leu
1 5

<210> 3435
<211> 9
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<400> 3435
Val Leu Gly Gly Ser Arg His Lys Leu
1 5

<210> 3436
<211> 9
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<400> 3436
Lys Ile Lys Glu Ser Phe Arg Lys Leu
1 5

<210> 3437
<211> 9
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<400> 3437
Ala Leu Met Pro Leu Tyr Ala Ser Ile
1 5

<210> 3438
<211> 9
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<400> 3438
Phe Leu Ser Lys Gln Tyr Leu Asn Leu
1 5

<210> 3439
<211> 9
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<400> 3439
Leu Leu Gly Ser Ala Ala Asn Trp Ile
1 5

<210> 3440
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<400> 3484

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<210> 3486

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<210> 3488

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<212> PRT

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Glu Ala Leu Ile His Gln Leu Lys Ile Asn Pro Tyr Val Leu Ser
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<210> 3489

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<210> 3490

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<210> 3492
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1 5 10

<210> 3493
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Phe Leu Leu Ala Gln Phe Thr Ser Ala Ile
1 5 10

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1 5

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Leu Leu Ser Ser Asn Leu Ser Trp Leu
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<210> 3503

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<210> 3504

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Lys Leu His Leu Tyr Ser His Pro Ile
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<210> 3505

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Phe Leu Leu Ala Gln Phe Thr Ser Ala
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1 5 10

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1 5

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1 5

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1 5 10

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1 5

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1 5

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Phe Leu Lys Asp Tyr Gln Leu Leu
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1 5

<210> 3552
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Ser Gly Pro Ser Asn Thr Tyr Pro Glu Ile
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1 5 10

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1 5 10

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<400> 3657
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1 5 10

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<400> 3661
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1 5 10

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His Thr Leu Trp Lys Ala Gly Ile Leu Tyr
1 5 10

<210> 3672

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Met Met Trp Tyr Trp Gly Pro Ser Leu Tyr
1 5 10

<210> 3673

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1 5 10

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Arg Trp Met Cys Leu Arg Arg Phe Ile Ile
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1 5

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1 5 10

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1 5 10

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Gln Ala Phe Thr Phe Ser Pro Thr Tyr Lys
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Lys Val Gly Asn Phe Thr Gly Leu Tyr
1 5

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Phe Pro His Cys Leu Ala Phe Ser Tyr Met
1 5 10

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Leu Pro Ser Asp Phe Phe Pro Ser Val

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Ile Pro Ile Pro Ser Ser Trp Ala Phe
1 5

<210> 3732
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His Pro Ala Ala Met Pro His Leu Leu
1 5

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1 5

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Tyr Pro Ala Leu Met Pro Leu Tyr Ala
1 5

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<400> 3735

Phe Pro His Cys Leu Ala Phe Ser Tyr
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<210> 3736

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<400> 3736

Thr Pro Ala Arg Val Thr Gly Gly Val Phe
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<400> 3738

Leu Cys Leu Ile Phe Leu Leu Val Leu Leu Asp Tyr Gln Gly Met
1 5 10 15

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Leu Val Leu Leu Asp Tyr Gln Gly Met Leu Pro Val Cys Pro Leu
1 5 10 15

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<400> 3742

Phe	Val	Gln	Trp	Phe	Val	Gly	Leu	Ser	Pro	Thr	Val	Trp	Leu	Ser
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<400> 3743

Ala	Ser	Lys	Leu	Cys	Leu	Gly	Trp	Leu	Trp	Gly	Met	Asp	Ile	Asp
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<400> 3744

Leu	Gly	Trp	Leu	Trp	Gly	Met	Asp	Ile	Asp	Pro	Tyr	Lys	Glu	Phe
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Pro His His Thr Ala Leu Arg Gln Ala Ile Leu Cys Trp Gly Glu Leu
1 5 10 15
Met Thr Leu Ala
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<210> 3746
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<220>
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Arg Gln Leu Leu Trp Phe His Ile Ser Cys Leu Thr Phe Gly Arg
1 5 10 15

<210> 3747
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Glu Tyr Leu Val Ser Phe Gly Val Trp Ile Arg Thr Pro Pro Ala
1 5 10 15

<210> 3748
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Gly Val Trp Ile Arg Thr Pro Pro Ala Tyr Arg Pro Pro Asn Ala
1 5 10 15

<210> 3749
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Pro Pro Ala Tyr Arg Pro Pro Asn Ala Pro Ile Leu Ser Thr Leu

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Asn Ala Pro Ile Leu Ser Thr Leu Pro Glu Thr Thr Val Val Arg
1 5 10 15

<210> 3751
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Ala Glu Asp Leu Asn Leu Gly Asn Leu Asn Val Ser Ile Pro Trp
1 5 10 15

<210> 3752
<211> 15
<212> PRT
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Asn Leu Asn Val Ser Ile Pro Trp Thr His Lys Val Gly Asn Phe
1 5 10 15

<210> 3753
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Arg His Tyr Leu His Thr Leu Trp Lys Ala Gly Ile Leu Tyr Lys
1 5 10 15

<210> 3754
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<400> 3754

Lys Phe Ala Val Pro Asn Leu Gln Ser Leu Thr Asn Leu Leu Ser
1 5 10 15

<210> 3755

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Val Pro Asn Leu Gln Ser Leu Thr Asn Leu Leu Ser Ser Asn Leu
1 5 10 15

<210> 3756

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Leu Gln Ser Leu Thr Asn Leu Leu Ser Ser Asn Leu Ser Trp Leu
1 5 10 15

<210> 3757

<211> 15

<212> PRT

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<400> 3757

Thr Asn Leu Leu Ser Ser Asn Leu Ser Trp Leu Ser Leu Asp Val
1 5 10 15

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<211> 15

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<400> 3758

Ser Ser Asn Leu Ser Trp Leu Ser Leu Asp Val Ser Ala Ala Phe
1 5 10 15

<210> 3759

<211> 15

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Leu	Ala	Gln	Phe	Thr	Ser	Ala	Ile	Cys	Ser	Val	Val	Arg	Arg	Ala
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Arg	Arg	Ala	Phe	Pro	His	Cys	Leu	Ala	Phe	Ser	Tyr	Met	Asp	Asp
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<400> 3763

Ala	Phe	Ser	Tyr	Met	Asp	Asp	Val	Val	Leu	Gly	Ala	Lys	Ser	Val
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Asp Trp Lys Val Cys Gln Arg Ile Val Gly Leu Leu Gly Phe Ala
1 5 10 15

<210> 3765
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<400> 3765
Val Gly Leu Leu Gly Phe Ala Ala Pro Phe Thr Gln Cys Gly Tyr
1 5 10 15

<210> 3766
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<400> 3766
Ala Ala Pro Phe Thr Gln Cys Gly Tyr Pro Ala Leu Met Pro Leu
1 5 10 15

<210> 3767
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<400> 3767
Gln Cys Gly Tyr Pro Ala Leu Met Pro Leu Tyr Ala Cys Ile Gln
1 5 10 15

<210> 3768
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<400> 3768
Leu Cys Gln Val Phe Ala Asp Ala Thr Pro Thr Gly Trp Gly Leu
1 5 10 15

<210> 3769
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<400> 3769
Ser Val Val Leu Ser Arg Lys Tyr Thr Ser Phe Pro Trp Leu Leu
1 5 10 15

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<400> 3770
Arg Asp Val Leu Cys Leu Arg Pro Val Gly Ala Glu Ser Arg Gly
1 5 10 15

<210> 3771
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<400> 3771
Gly Ala His Leu Ser Leu Arg Gly Leu Pro Val Cys Ala Phe Ser
1 5 10 15

<210> 3772
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<220>
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<400> 3772
Val Cys Ala Phe Ser Ser Ala Gly Pro Cys Ala Leu Arg Phe Thr
1 5 10 15

<210> 3773
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<212> PRT
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<220>
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Ser Val Arg Phe Ser Trp Leu Ser Leu Leu Val Pro Phe Val Gln

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1 5 10 15

<210> 3774
<211> 15
<212> PRT
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<220>
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<400> 3774
Arg Asp Leu Leu Asp Thr Ala Ser Ala Leu Tyr Arg Glu Ala Leu
1 5 10 15

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<400> 3775
Val Gly Asn Phe Thr Gly Leu Tyr Ser Ser Thr Val Pro Val Phe
1 5 10 15

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<400> 3776
Thr Asn Phe Leu Leu Ser Leu Gly Ile His Leu Asn Pro Asn Lys
1 5 10 15

<210> 3777
<211> 15
<212> PRT
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<400> 3777
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1 5 10 15

<210> 3778
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<400> 3778

Lys	Gln	Ala	Phe	Thr	Phe	Ser	Pro	Thr	Tyr	Lys	Ala	Phe	Leu	Cys
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Gly	Thr	Ser	Phe	Val	Tyr	Val	Pro	Ser	Ala	Leu	Asn	Pro	Ala	Asp
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Pro	Leu	Gly	Phe	Phe	Pro	Asp	His	Gln	Leu	Asp	Pro
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<223> Artificial Peptide

<400> 3782

Phe	Leu	Leu	Val	Leu	Leu	Asp	Tyr	Gln	Gly	Met	Leu	Pro	Val	Cys
1				5					10				15	

<210> 3783

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 3783

Arg	Asp	Leu	Leu	Asp	Thr	Ala	Ser	Ala	Leu	Tyr	Arg	Glu	Ala	Leu	Glu
1				5					10					15	
Ser	Pro	Glu	His												
			20												

<210> 3784

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 3784

Ala	Gly	Pro	Leu	Glu	Glu	Leu	Pro	Arg	Leu	Ala	Asp	Glu	Gly
1				5				10					15

<210> 3785

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 3785

Asn	Arg	Arg	Val	Ala	Glu	Asp	Leu	Asn	Leu	Gly	Asn	Leu	Asn	Val
1				5				10					15	

<210> 3786

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 3786

Val	Gly	Pro	Leu	Thr	Val	Asn	Glu	Lys	Arg	Arg	Leu	Lys	Leu	Ile
1				5				10					15	

<210> 3787

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 3787

Thr	Lys	Tyr	Leu	Pro	Leu	Asp	Lys	Gly	Ile	Lys	Pro	Tyr	Tyr	Pro
1				5				10					15	

<210> 3788
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Artificial Peptide

<400> 3788
Gly Gly Val Phe Leu Val Asp Lys Asn Pro His Asn Thr Thr Glu
1 5 10 15

<210> 3789
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Artificial Peptide

<400> 3789
Glu Ser Arg Leu Val Val Asp Phe Ser Gln Phe Ser Arg Gly Asn
1 5 10 15

<210> 3790
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Artificial Peptide

<400> 3790
Asn Leu Ser Trp Leu Ser Leu Asp Val Ser Ala Ala Phe Tyr His
1 5 10 15

<210> 3791
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Artificial Peptide

<400> 3791
Ala Phe Thr Phe Ser Pro Thr Tyr Lys Ala Phe Leu Cys Lys Gln
1 5 10 15

<210> 3792
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Artificial Peptide

<400> 3792
Leu Arg Pro Val Gly Ala Glu Ser Arg Gly Arg Pro Val Ser Gly

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1	5	10	15
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<210> 3793
<211> 20
<212> PRT
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<220>
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<400> 3793
Pro Leu Leu Val Leu Gln Ala Gly Phe Phe Leu Leu Thr Arg Ile Leu
1 5 10 15
Thr Ile Pro Gln
20

<210> 3794
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Artificial Peptide

<400> 3794
Ser Leu Asp Ser Trp Trp Thr Ser Leu Asn Phe Leu Gly Gly Thr Thr
1 5 10 15
Val Cys Leu Gly
20

<210> 3795
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Artificial Peptide

<400> 3795
Gly Tyr Arg Trp Met Cys Leu Arg Arg Phe Ile Ile Phe Leu Phe Ile
1 5 10 15
Leu Leu Leu Cys
20

<210> 3796
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Artificial Peptide

<400> 3796
Pro Gln Ala Met Gln Trp Asn Ser Thr Thr Phe His Gln Thr Leu
1 5 10 15

<210> 3797

<211> 15
<212> PRT
<213> Artificial Sequence

<220>
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<400> 3797
Ala Gly Phe Phe Leu Leu Thr Arg Ile Leu Thr Ile Pro Gln Ser
1 5 10 15

<210> 3798
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Artificial Peptide

<400> 3798
Ile Phe Leu Phe Ile Leu Leu Leu Cys Leu Ile Phe Leu Leu Val
1 5 10 15

<210> 3799
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Artificial Peptide

<400> 3799
Val Ser Phe Gly Val Trp Ile Arg Thr Pro Pro Ala Tyr Arg Pro Pro
1 5 10 15
Asn Ala Pro Ile
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<210> 3800
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
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<400> 3800
Ser Phe Gly Val Trp Ile Arg Thr Pro Pro Ala Tyr Arg Pro Pro
1 5 10 15

<210> 3801
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Artificial Peptide

<400> 3801

Leu His Leu Tyr Ser His Pro Ile Ile Leu Gly Phe Arg Lys Ile
1 5 10 15

<210> 3802
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Artificial Peptide

<400> 3802
Lys Gln Cys Phe Arg Lys Leu Pro Val Asn Arg Pro Ile Asp Trp
1 5 10 15

<210> 3803
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Artificial Peptide

<400> 3803
Ala Ala Asn Trp Ile Leu Arg Gly Thr Ser Phe Val Tyr Val Pro
1 5 10 15

<210> 3804
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Artificial Peptide

<400> 3804
Pro Asp Arg Val His Phe Ala Ser Pro Leu His Val Ala Trp Arg
1 5 10 15

<210> 3805
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Artificial Peptide

<400> 3805
Leu Gln Ser Leu Thr Asn Leu Leu Ser Ser Asn Leu Ser Trp Leu
1 5 10 15

<210> 3806
<211> 15
<212> PRT
<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 3806

Lys	Gln	Ala	Phe	Thr	Phe	Ser	Pro	Thr	Tyr	Lys	Ala	Phe	Leu	Cys
1				5					10					15

<210> 3807

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 3807

Ala	Gly	Phe	Phe	Leu	Leu	Thr	Arg	Ile	Leu	Thr	Ile	Pro	Gln	Ser
1				5					10					15

<210> 3808

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 3808

Gly	Thr	Ser	Phe	Val	Tyr	Val	Pro	Ser	Ala	Leu	Asn	Pro	Ala	Asp
1				5					10					15

<210> 3809

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 3809

Ser	Phe	Gly	Val	Trp	Ile	Arg	Thr	Pro	Pro	Ala	Tyr	Arg	Pro	Pro
1				5					10					15

<210> 3810

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 3810

Gly	Val	Trp	Ile	Arg	Thr	Pro	Pro	Ala	Tyr	Arg	Pro	Pro	Asn	Ala
1				5					10					15

<210> 3811

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 3811

Val	Ser	Phe	Gly	Val	Trp	Ile	Arg	Thr	Pro	Pro	Ala	Tyr	Arg	Pro	Pro
1				5					10					15	
Asn	Ala	Pro	Ile												
				20											

<210> 3812

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 3812

Arg	His	Tyr	Leu	His	Thr	Leu	Trp	Lys	Ala	Gly	Ile	Leu	Tyr	Lys
1				5					10					15

<210> 3813

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 3813

Leu	Val	Pro	Phe	Val	Gln	Trp	Phe	Val	Gly	Leu	Ser	Pro	Thr	Val
1				5					10					15

<210> 3814

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 3814

Leu	His	Leu	Tyr	Ser	His	Pro	Ile	Ile	Leu	Gly	Phe	Arg	Lys	Ile
1				5					10					15

<210> 3815

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 3815

Pro	Phe	Leu	Leu	Ala	Gln	Phe	Thr	Ser	Ala	Ile	Cys	Ser	Val	Val
1				5					10					15

<210> 3816
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Artificial Peptide

<400> 3816
Lys Gln Cys Phe Arg Lys Leu Pro Val Asn Arg Pro Ile Asp Trp
1 5 10 15

<210> 3817
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Artificial Peptide

<400> 3817
Ala Ala Asn Trp Ile Leu Arg Gly Thr Ser Phe Val Tyr Val Pro
1 5 10 15

<210> 3818
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Artificial Peptide

<400> 3818
Pro His His Thr Ala Leu Arg Gln Ala Ile Leu Cys Trp Gly Glu Leu
1 5 10 15
Met Thr Leu Ala
20

<210> 3819
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
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<400> 3819
Leu Cys Gln Val Phe Ala Asp Ala Thr Pro Thr Gly Trp Gly Leu
1 5 10 15

<210> 3820
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
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<400> 3820

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Glu Ser Arg Leu Val Val Asp Phe Ser Gln Phe Ser Arg Gly Asn
1 5 10 15

<210> 3821
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
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<400> 3821
Val Gly Pro Leu Thr Val Asn Glu Lys Arg Arg Leu Lys Leu Ile
1 5 10 15

<210> 3822
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
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<400> 3822
Ser Ser Asn Leu Ser Trp Leu Ser Leu Asp Val Ser Ala Ala Phe
1 5 10 15

<210> 3823
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
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<400> 3823
Asn Leu Ser Trp Leu Ser Leu Asp Val Ser Ala Ala Phe Tyr His
1 5 10 15

<210> 3824
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
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<400> 3824
Phe Leu Pro Ser Asp Phe Phe Pro Ser Val
1 5 10

<210> 3825
<211> 9
<212> PRT
<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 3825

Phe Leu Leu Thr Arg Ile Leu Thr Ile
1 5

<210> 3826

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 3826

Ala Leu Met Pro Leu Tyr Ala Cys Ile
1 5

<210> 3827

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 3827

Trp Leu Ser Leu Leu Val Pro Phe Val
1 5

<210> 3828

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

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<400> 3828

Tyr Met Asp Asp Val Val Leu Gly Val
1 5

<210> 3829

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 3829

Gly Leu Ser Arg Tyr Val Ala Arg Leu
1 5

<210> 3830

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 3830

Phe Leu Leu Ser Leu Gly Ile His Leu
1 5

<210> 3831

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 3831

Leu Leu Pro Ile Phe Phe Cys Leu Trp Val
1 5 10

<210> 3832

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 3832

Leu Leu Val Pro Phe Val Gln Trp Phe Val
1 5 10

<210> 3833

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 3833

His Thr Leu Trp Lys Ala Gly Ile Leu Tyr Lys
1 5 10

<210> 3834

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 3834

Ser Thr Leu Pro Glu Thr Thr Val Val Arg Arg
1 5 10

<210> 3835
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
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<400> 3835
Asn Val Ser Ile Pro Trp Thr His Lys
1 5

<210> 3836
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Artificial Peptide

<400> 3836
Leu Val Val Asp Phe Ser Gln Phe Ser Arg
1 5 10

<210> 3837
<211> 10
<212> PRT
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<220>
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<400> 3837
Gln Ala Phe Thr Phe Ser Pro Thr Tyr Lys
1 5 10

<210> 3838
<211> 9
<212> PRT
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<220>
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<400> 3838
Ser Ala Ile Cys Ser Val Val Arg Arg
1 5

<210> 3839
<211> 9
<212> PRT
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<220>
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<400> 3839
Lys Val Gly Asn Phe Thr Gly Leu Tyr

1

5

<210> 3840
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<212> PRT
<213> Artificial Sequence

<220>
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<400> 3840
Phe Pro His Cys Leu Ala Phe Ser Tyr Met
1 5 10

<210> 3841
<211> 9
<212> PRT
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<220>
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<400> 3841
Leu Pro Ser Asp Phe Phe Pro Ser Val
1 5

<210> 3842
<211> 9
<212> PRT
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<220>
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<400> 3842
Ile Pro Ile Pro Ser Ser Trp Ala Phe
1 5

<210> 3843
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
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<400> 3843
His Pro Ala Ala Met Pro His Leu Leu
1 5

<210> 3844
<211> 11
<212> PRT
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<220>
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<400> 3844

Tyr Pro Ala Leu Met Pro Leu Tyr Ala Cys Ile
1 5 10

<210> 3845

<211> 10

<212> PRT

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<220>

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<400> 3845

Thr Pro Ala Arg Val Thr Gly Gly Val Phe
1 5 10

<210> 3846

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

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<400> 3846

Asp Leu Leu Asp Thr Ala Ser Ala Leu Tyr
1 5 10

<210> 3847

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 3847

Leu Ser Leu Asp Val Ser Ala Ala Phe Tyr
1 5 10

<210> 3848

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

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<400> 3848

Trp Met Met Trp Tyr Trp Gly Pro Ser Leu Tyr
1 5 10

<210> 3849

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

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<400> 3849

Arg Trp Met Cys Leu Arg Arg Phe Ile Ile
1 5 10

<210> 3850

<211> 9

<212> PRT

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<400> 3850

Ser Trp Leu Ser Leu Leu Val Pro Phe
1 5

<210> 3851

<211> 9

<212> PRT

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<220>

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<400> 3851

Ser Trp Trp Thr Ser Leu Asn Phe Leu
1 5

<210> 3852

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

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<400> 3852

Glu Tyr Leu Val Ser Phe Gly Val Trp Ile
1 5 10

<210> 3853

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

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<400> 3853

Ala Tyr Arg Pro Pro Asn Ala Pro Ile
1 5

<210> 3854

<211> 9

<212> PRT
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<220>
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<400> 3854
Trp Phe His Ile Ser Cys Leu Thr Phe
1 5

<210> 3855
<211> 10
<212> PRT
<213> Artificial Sequence

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<400> 3855
Ser Trp Pro Lys Phe Ala Val Pro Asn Leu
1 5 10

<210> 3856
<211> 9
<212> PRT
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<220>
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<400> 3856
Lys Tyr Thr Ser Phe Pro Trp Leu Leu
1 5

<210> 3857
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
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<400> 3857
Leu Tyr Ser His Pro Ile Ile Leu Gly Phe
1 5 10

<210> 3858
<211> 15
<212> PRT
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<220>
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<400> 3858
Leu Gln Ser Leu Thr Asn Leu Leu Ser Ser Asn Leu Ser Trp Leu
1 5 10 15

<210> 3859
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<212> PRT
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<220>
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<400> 3859
Lys Gln Ala Phe Thr Phe Ser Pro Thr Tyr Lys Ala Phe Leu Cys
1 5 10 15

<210> 3860
<211> 15
<212> PRT
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<220>
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<400> 3860
Ala Gly Phe Phe Leu Leu Thr Arg Ile Leu Thr Ile Pro Gln Ser
1 5 10 15

<210> 3861
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<220>
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<400> 3861
Gly Thr Ser Phe Val Tyr Val Pro Ser Ala Leu Asn Pro Ala Asp
1 5 10 15

<210> 3862
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<212> PRT
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<220>
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<400> 3862
Val Ser Phe Gly Val Trp Ile Arg Thr Pro Pro Ala Tyr Arg Pro Pro
1 5 10 15
Asn Ala Pro Ile
20

<210> 3863
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<220>
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<400> 3863

Arg	His	Tyr	Leu	His	Thr	Leu	Trp	Lys	Ala	Gly	Ile	Leu	Tyr	Lys
1				5					10					15

<210> 3864

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<212> PRT

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<400> 3864

Leu	Val	Pro	Phe	Val	Gln	Trp	Phe	Val	Gly	Leu	Ser	Pro	Thr	Val
1				5					10					15

<210> 3865

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<400> 3865

Leu	His	Leu	Tyr	Ser	His	Pro	Ile	Ile	Leu	Gly	Phe	Arg	Lys	Ile
1				5					10					15

<210> 3866

<211> 15

<212> PRT

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<400> 3866

Pro	Phe	Leu	Leu	Ala	Gln	Phe	Thr	Ser	Ala	Ile	Cys	Ser	Val	Val
1				5					10					15

<210> 3867

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<220>

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<400> 3867

Lys	Gln	Cys	Phe	Arg	Lys	Leu	Pro	Val	Asn	Arg	Pro	Ile	Asp	Trp
1				5					10					15

<210> 3868

<211> 15

<212> PRT

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<220>

<223> Artificial Peptide

<400> 3868

Ala Ala Asn Trp Ile Leu Arg Gly Thr Ser Phe Val Tyr Val Pro
1 5 10 15

<210> 3869

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 3869

Pro His His Thr Ala Leu Arg Gln Ala Ile Leu Cys Trp Gly Glu Leu
1 5 10 15
Met Thr Leu Ala
20

<210> 3870

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 3870

Leu Cys Gln Val Phe Ala Asp Ala Thr Pro Thr Gly Trp Gly Leu
1 5 10 15

<210> 3871

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 3871

Glu Ser Arg Leu Val Val Asp Phe Ser Gln Phe Ser Arg Gly Asn
1 5 10 15

<210> 3872

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 3872

Val Gly Pro Leu Thr Val Asn Glu Lys Arg Arg Leu Lys Leu Ile
1 5 10 15

<210> 3873
<211> 15
<212> PRT
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<220>
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<400> 3873
Ser Ser Asn Leu Ser Trp Leu Ser Leu Asp Val Ser Ala Ala Phe
1 5 10 15

<210> 3874
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Artificial Peptide

<400> 3874
Gln Tyr Ile Lys Ala Asn Ser Lys Phe Ile Gly Ile Thr Glu
1 5 10

<210> 3875
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> Artificial Peptide

<400> 3875
Asp Ile Glu Lys Lys Ile Ala Lys Met Glu Lys Ala Ser Ser Val Phe
1 5 10 15
Asn Val Val Asn Ser
20

<210> 3876
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Artificial Peptide

<400> 3876
Gly Ala Val Asp Ser Ile Leu Gly Gly Val Ala Thr Tyr Gly Ala Ala
1 5 10 15

<210> 3877
<211> 13
<212> PRT
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<220>
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<220>

<221> MOD_RES
<222> (3)...(3)
<223> Xaa = cyclohexyalanine, Phe or Tyr

<400> 3877
Ala Lys Xaa Val Trp Ala Asn Thr Leu Lys Ala Ala Ala
1 5 10

<210> 3878
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<220>
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<220>
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<223> Met, Phe, Leu, Ile, Val, Trp, or Tyr

<220>
<221> VARIANT
<222> (5)..(5)
<223> May be any amino acid

<220>
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<222> (6)..(6)
<223> Ile, Val, Met, Ser, Ala, Cys, Thr, Pro, or Leu

<220>
<221> VARIANT
<222> (8)..(8)
<223> May be any amino acid

<220>
<221> VARIANT
<222> (9)..(9)
<223> Ile or Val

<400> 3878
Xaa Met Trp Ala Xaa Xaa Met Xaa Xaa
1 5

<210> 3879
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<223> May be any amino acid

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<223> May be any amino acid

<220>

<221> VARIANT

<222> (5)..(6)

<223> May be any amino acid

<220>

<221> VARIANT

<222> (7)..(7)

<223> Gly, Arg, or Asp

<400> 3879

Xaa Cys Xaa Gly Xaa Xaa Xaa Asn Gly
1 5